

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number  
**WO 2005/036104 A1**

(51) International Patent Classification<sup>7</sup>: G01F 23/00,  
23/30, G08B 21/00

(21) International Application Number:  
PCT/CA2004/001837

(22) International Filing Date: 18 October 2004 (18.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/511,596 16 October 2003 (16.10.2003) US

(71) Applicant and

(72) Inventor: COLLIER, William, R. [US/CA]; C.P. 97, 26,  
avenue Versailles, Esterel, Québec J0T 1L0 (CA).

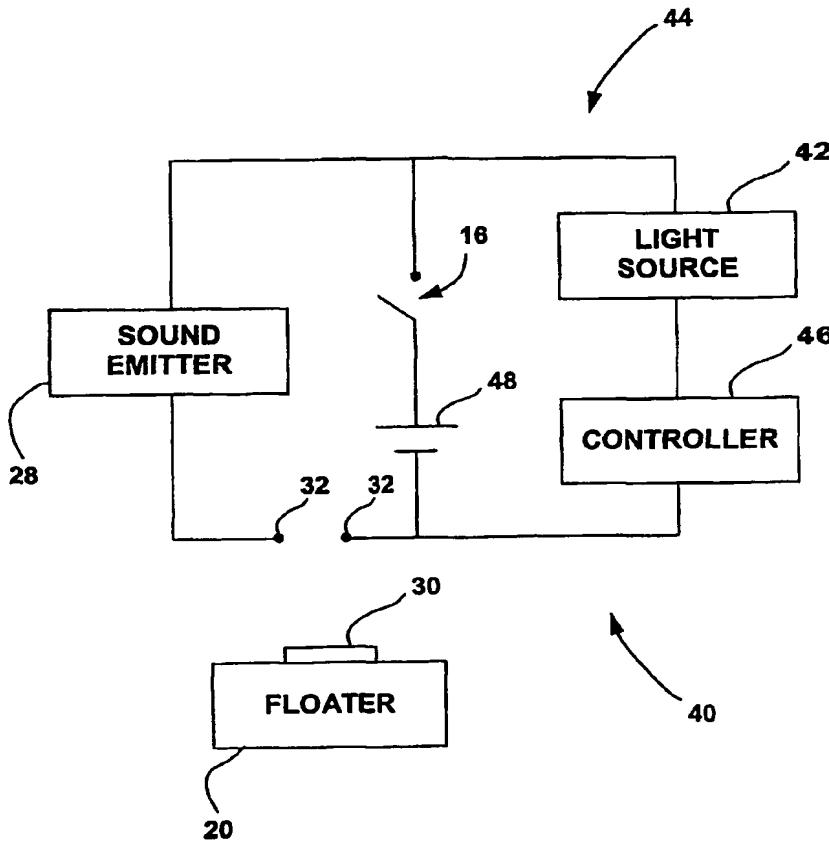
(74) Agent: OGILVY RENAULT LLP / S.E.N.C.R.L.,  
S.R.L.; Suite 1600, 1981 McGill College Avenue, Mon-  
tréal, Québec H3A 2Y3 (CA).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: FLUID LEVEL DETECTOR AND ALARM APPARATUS



(57) Abstract: A fluid level detector and alarm apparatus for detecting a fluid level in a liquid receiving open-top vessel such as sinks, tubs and the like, comprising: a housing being connectable to the vessel so as to be positioned within the vessel. A sound emitter is positioned within the housing, the sound emitter being actuatable to emit a sound alarm. A circuit interconnects the sound emitter to the power source and has opposed ends emerging out of the housing. A floater unit has a conductive member thereon and is operatively connected to the housing so as to be displaceable with respect to the housing to a contacting position in which the conductive member contacts the opposed ends of the circuit to actuate the sound emitter, whereby the floater unit is displaced to the contacting position by buoyant forces exerted on the floater unit as a result of the fluid level in the vessel reaching the predetermined level, such that a sound alarm is emitted.

**Published:**

- with international search report
- with amended claims

**(88) Date of publication of the revised international search report:** 23 June 2005

**Date of publication of the amended claims:** 15 September 2005

**(15) Information about Correction:****Previous Correction:**

see PCT Gazette No. 25/2005 of 23 June 2005, Section II

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*